

SUBARU **INSTALLATION
INSTRUCTIONS****SECURITY SYSTEM
UPGRADE
LEGACY
P/N: H7110LS200**

NOTE: This system requires prior installation of Keyless Entry System. If installing both systems at the same time, install the Keyless Entry System first.

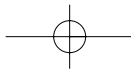
Kit Contents:

- 1 Security Control Module w/Integral Bracket
- 1 Starter Interrupt/Horn Relays w/Integral Bracket
- 1 Horn w/Integral Bracket
- 1 Security Radio Mounting Bracket
- 2 Pan Head Screws (M5×8mm)
- 2 M6 Nuts
- 2 Window Decals
- 1 Installation Manual

Tools Required:

- #1 Flat-tip Screwdriver
- #2 Phillips Head Screwdriver
- Electrical Tape
- 1/4" Drive Ratchet
- 10-inch 1/4" Drive Extension
- 10mm Socket

This device complies with FCC rules part 15. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference that may cause undesired operation.



A. Pre-Installation Notes

1. Vehicle Preparation

- a. Lower the driver's side window to avoid inadvertently locking the keys in the vehicle during installation.
- b. Disconnect negative battery terminal to prevent accidental shorting of any power circuits.

2. System Preparation

Remove the security module from the package and inspect for any physical damage.

3. Shock Sensor Adjustment

The shock sensor adjustment knob is recessed inside the unit and is covered by a protective seal.

This adjustment is PRESET at the factory.

B. Security Module Installation

1. Remove the gearshift cover by pulling up in areas indicated by arrows in Figure 1.
 - a. For automatic transmission, shifter must temporarily be placed into neutral.
 - b. For standard transmission, the shift knob must be removed by unscrewing.

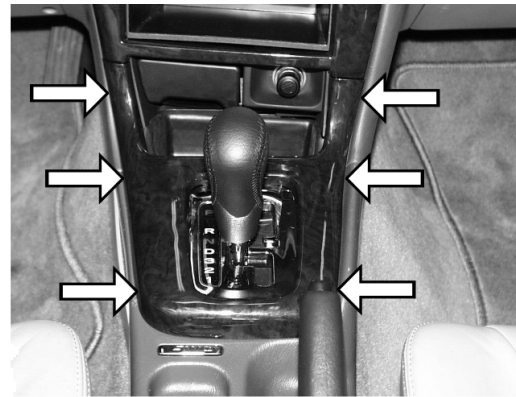


Figure 1

2. Remove the tray by removing the two screws indicated by arrows in Figure 2.

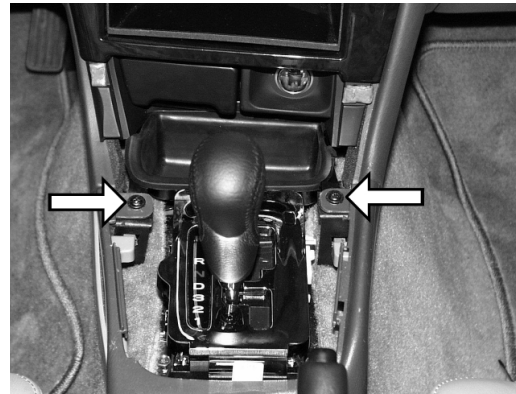


Figure 2

3. Remove the ashtray. Disassemble ashtray assembly by removing the two screws indicated by arrows in Figure 3.

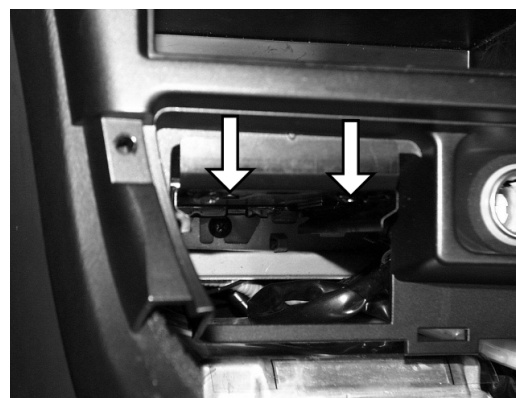
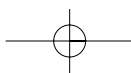


Figure 3



4. Lift the center console cover by carefully pulling outward in areas indicated by arrows in Figure 4.

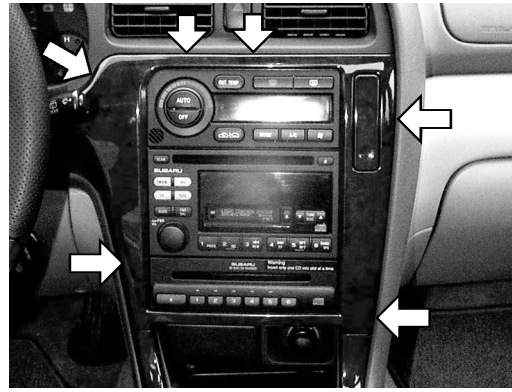


Figure 4

5. Remove the six screws indicated by the arrows in Figure 5. Do not disconnect any connectors. Pull the unit out just far enough to access the passenger side of the unit. See Figure 6.

NOTE: While the HVAC unit is pulled forward, the ASPIRATOR SENSOR hose (located on the driver's side of the HVAC unit) may disconnect. The hose must be reconnected during re-installation.

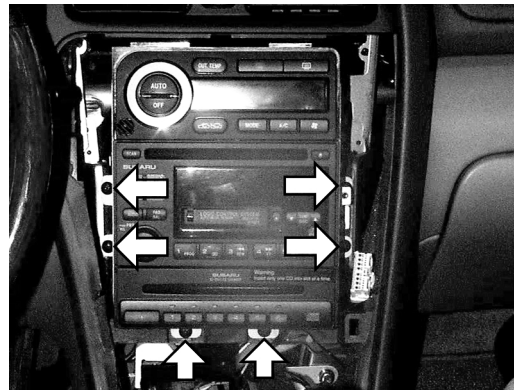


Figure 5

6. Install the security radio mounting bracket per Figure 6, by first removing all radio, CD, etc. mounting screws visible on passenger side of car radio bracket. Locate and install security radio mounting bracket utilizing these screws.



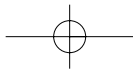
Figure 6

7. Locate the security module 18-pin (white housing) wire harness connector which is located behind or to the right side of the audio unit.
8. Re-install the radio assembly. Insure all connectors and ground wires are fully seated and secure. Insure that the HVAC unit is functioning properly.
9. Insert the security module 18-pin connector into the security module.
10. Mount the security module onto the support bracket with two screws (M5×8mm). See Figure 7.

NOTE: The security module must be firmly and securely fastened to the support bracket. If the security module is not properly installed, the system's shock sensor will not function as intended.



Figure 7



C. Starter Interrupt and Horn Relay Installation

1. Remove the screw indicated by the arrow in Figure 1 and disengage the two plastic screws indicated by arrows in Figure 2, then remove the dash panel.

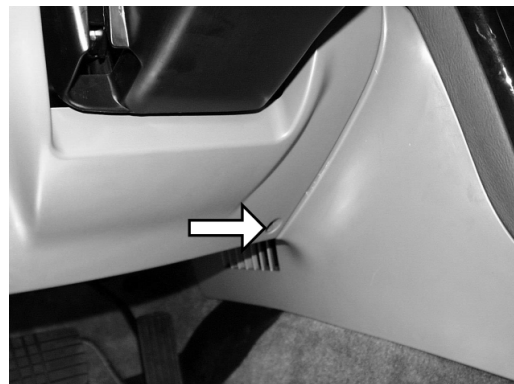


Figure 1

2. Locate the starter interrupt 6-pin (white housing) connector located to the left side of the steering column behind the removed lower dash panel.
3. Disconnect the jumper connector from the plug and insert the starter interrupt relay into the plug.

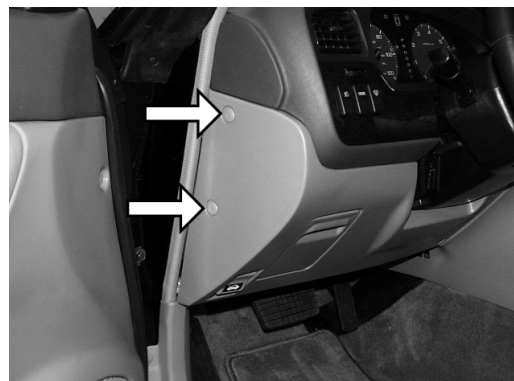


Figure 2

4. Locate the horn relay 6-pin (black housing) connector located to the left side of the steering column behind the removed lower dash panel.
5. Route the horn relay harness around the fuse box.
6. If the vehicle is equipped with the VDC system, the lower fuse box OE nut will first have to be loosened. Then gently pull the fuse box forward and the attachment bracket downward. Carefully slip the harness through and then retighten the nut (See figure 3).
7. Connect the 6-pin connectors to the two relays. Pull down and untwist harness to maximize cable length. Since the relays are the same it does not matter which connection is made.



Figure 3

8. Mount the relay bracket to the two studs with two M6 nuts indicated by arrows in Figure 4. Depending on vehicle type, an OE nut may be present on one of these studs. If so, remove and discard.

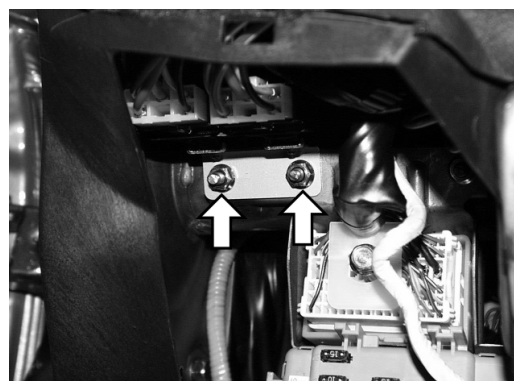
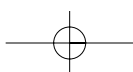
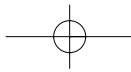


Figure 4





D. Horn Installation

1. Locate the AT resistor in the engine compartment.
2. Remove the bolt (M8) indicated by arrow A in Figure 1 and loose the bolt (M8) indicated by arrow B.
3. Mount the horn bracket by passing it behind the AT resistor in the engine compartment. Insert the notch of the horn bracket between the bolt and nut indicated by arrow B, and secure both bolts indicated by arrow A and B. Tighten bolts to 5.4+/-1.4 ft. lbs.
4. Locate the black 1-pin connector at the end of the firewall wire harness, below the receiver/dryer.
5. Connect the 1-pin connector to the horn.

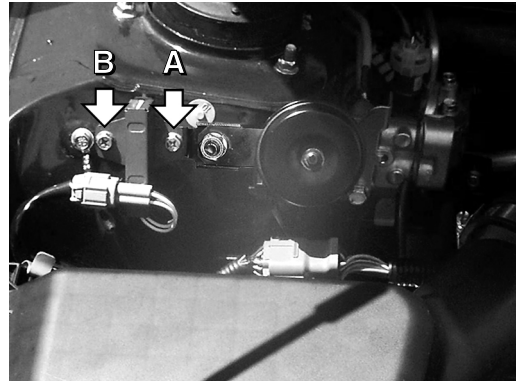


Figure 1

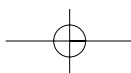
E. Prior to System Test

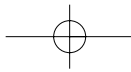
WARNING! Do not allow terminals of radio connectors to come in contact with any metal from vehicle due to +12 volts being present at these terminals.

1. Reconnect negative battery terminal.

F. System Test

1. Exit the vehicle and close all doors.
2. Depress the LOCK/ARM button on the remote and the following should be observed:
 - a. All vehicle doors will lock.
 - b. The parking lights will flash once and the horn will chirp once.
 - c. Status indicator (LED) will begin to flash 1x per 2 seconds.
3. Wait 5 seconds then depress the UNLOCK/DISARM button on the remote and the following should be observed:
 - a. The driver's door will unlock.
 - b. The parking lights will flash twice and the horn will chirp twice.
 - c. The status indicator (LED) will stop flashing.
4. Wait 5 seconds then depress the UNLOCK/DISARM button on the remote and the following should be observed:
 - a. All doors will unlock.
5. Depress the LOCK/ARM button on the remote to enter the armed mode.
6. Wait 5 seconds then, using the key, open a door or trunk (vehicle hood is not protected) and the following should be observed:
 - a. The horn will start to sound 1x per second.
 - b. The parking lights will flash 1x per second.
 - c. The status indicator (LED) will begin to flash 2x per second.
7. With the alarm sounding, attempt to start the engine. The engine should not start.
 - a. If the engine starts, ensure that the starter interrupt relay is properly installed.





G. Valet Mode Test

1. Open the driver's door and then depress and hold the UNLOCK/DISARM button on the remote for more than two seconds and the following should be observed:
 - a. The status indicator (LED) will begin flashing 2x per second indicating that the alarm is in the valet mode.
2. Close all doors.
3. Depress the LOCK/ARM button on the remote and the following should be observed:
 - a. All vehicle doors will lock.
 - b. The horn will chirp once.
 - c. Parking lights will flash once.
 - d. The status indicator (LED) will continue to flash 2x per second indicating that the alarm is in the valet mode.
4. Wait 5 seconds then, using the key, open a door or the trunk and THE ALARM SHOULD NOT TRIGGER.
5. Depress the UNLOCK/DISARM button and the driver's door should unlock.
6. Open the driver's door and then depress and hold the UNLOCK/DISARM on the remote for more than 2 seconds and the following should be observed:
 - a. The status indicator (LED) will stop flashing indicating that the alarm is now out of valet mode and has returned to normal operation.
 - b. All the doors will unlock.

H. Shock Sensor Test

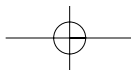
1. Lower the driver's side window then close all doors.
2. Depress the LOCK/ARM button on the remote to enter the armed mode.
3. Wait 5 seconds, then reach through the window and lightly strike the rim of the steering column (DO NOT hit the horn or AIR BAG!) and the following should be observed:
 - a. The horn will chirp 2 times.
 - b. The parking lights will flash 2 times.

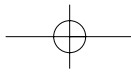
NOTE: This is shock sensor warning mode. For light vibrations and/or impacts, only warning chirps are delivered.

4. Wait 10 seconds, then again reach through the window and firmly strike the rim of the steering column (DO NOT hit the horn or air bag!) and the alarm should trigger.

NOTE: If shock sensor sensitivity is too high or too low, the sensitivity may be adjusted by following the procedure section I.

5. Depress the UNLOCK/DISARM button on the remote transmitter to deactivate.





I. Notes on System Operation

1. If the alarm is not deactivated within 30 seconds of triggering, the system will automatically reset.
2. The hood is not protected as a part of this system and therefore will not cause a triggering of the alarm when opened unless sufficient force is used in which case the shock sensor will trigger the alarm.
3. When accessing Valet mode, be sure to open the driver's door in order for the feature to function properly.
4. The shock sensor has two levels, warning and alarm. In warning mode (light shock) the alarm will not trigger but instead will give two horn chirps and two light flashes. This is a feature of the system and is not to be regarded as a malfunction. Only in alarm mode (heavy impact) will the alarm be triggered.
5. The alarm will automatically reset after 30 seconds.
6. When deactivating, the system will indicate an alarm occurred during the armed cycle by the following:
 - a. The horn will chirp 4x.
 - b. The lights will flash 4x.
7. If any secured opening is open at the time of depressing LOCK/ARM on the remote transmitter, the horn will chirp 3 times indicating that all openings have not been properly closed. Upon closing, all doors will lock automatically. Although the trunk will not produce the 3 chirp indication, it will produce an alarm within 5 seconds if left open.

J. Shock Sensor Adjustment-ONLY IF REQUIRED

The factory has preset the sensitivity of the shock sensor at the time of manufacture. Under normal circumstances the sensitivity should not require any adjustment and should be left untouched. However, in the unlikely event that adjustment is required, please follow the steps outlined below.

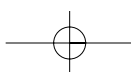
1. Carefully remove the seal covering the shock sensor adjustment hole on the top of the security module.
2. Using a #0 flat blade screwdriver, CAREFULLY AND GENTLY adjust the sensitivity.

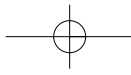
CW (clockwise) –INCREASES sensitivity
CCW (counterclockwise) –DECREASES sensitivity

3. With each adjustment of the control, repeat section I. Shock Sensor Test, to determine if the desired sensitivity has been reached.

CAUTION: DO NOT make the sensitivity of the unit overly sensitive. Too high a sensitivity setting will result in false alarms and provides no relative increase in the overall measure of security.

4. Upon completion of the sensitivity adjustment, place a small piece of electrical tape over the sensitivity adjustment hole to prevent dust and/or other foreign material from entering the unit.





K. Finishing the Installation

1. Reverse steps 1 through 10 in section B. Installation Preparation, to reassemble radio, radio trim bezel, cup holder, ashtray, gear shift cover and parking brake trim.
2. Replace the lower dash panel below the steering column.
3. Place the window decals on the inside of the rear passenger windows at the lower-front edge of each window. The bottom edge of the decal should be one (1) inch from the bottom of the window, and the front edge of the decal should be one (1) inch from the front of the window. Make sure that the window is clean and the decal is square and straight before adhering to the window.

Installation is now complete.

